

### **ABSTRACT OF THE DISCLOSURE**

A fiber optic sensing coil is formed by winding a non-coated optical fiber in a substantially circular loop. The non-coated optical fiber includes a core and a cladding. Once the non-coated optical fiber is wound, turns of the non-coated optical fiber are fused so that the cladding of the individual turns of the optical fiber are fused to one another at points of mutual contact.

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